

# 5<sup>TH</sup> INTERNATIONAL CONFERENCE ON INFORMATION SYSTEM DESIGN AND INTELLIGENT APPLICATION INDIA (2018)

19<sup>TH</sup> – 21<sup>ST</sup> July, 2018

Organised by Université des Mascareignes, Mauritius

## Special Session On: “Intelligent Computing in Multidisciplinary Engineering Applications”

**Aims and Scope:** Computational intelligence serves as a powerful tool to mimic and process human knowledge. This has yielded a spectrum of intelligent computing approaches to optimize multidisciplinary engineering applications. Although ‘Intelligent Computing’ is a developed area of research, many new findings are being evolved by researchers in multitude of applications. It is known that hybridization of computational approaches with traditional engineering methodologies and applications has become a topic of increasing interest for both researchers and developers globally from academia as well as industries. The theme will address advances in theories, concepts (mathematical as well as physical) and methodologies of artificial intelligence, soft computing & machine learning where they could be applied to numerous interdisciplinary domains of engineering as well as bio-medical. The purpose of this special session is to publish high-quality research papers as well as review articles addressing recent advances on computational intelligence and its application in engineering. The theme covers following topics (intelligent algorithms with their prospective applications in any of these domains) **but not limited to:**

### Algorithms

- Evolutionary Computation
- Swarm Intelligence
- Artificial Neural Networks
- DNA and Molecular Computing
- Membrane Computing
- Biological Computing (Bio-inspired computing)
- Artificial Immune Systems
- Autonomy-Oriented Computing
- Agent based Systems
- Computational Neuroscience
- Multi-/Many-Objective Optimization

### Applications

- Multimedia & Text Processing
- Computational Neuroscience
- Pattern Recognition and Machine Learning
- Signal, Image and Video Processing
- Speech Processing
- Data Fusion
- Knowledge Discovery and Data Mining
- Expert Systems
- Information Security

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- Computer Vision
- Cloud Computing
- Nanotechnology
- Web and Networks
- Bio-informatics
- Parallel Computing
- Biometrics, Security and Forensics Applications

## Special Session Chairs:

### Dr. Vikrant Bhateja

Department of Electronics and Communication Engineering,  
SRMGPC, Lucknow (U.P.), India.

E-Mail: [bhateja.vikrant@ieee.org](mailto:bhateja.vikrant@ieee.org)

### Dr. Hong Lin

Department of Computer Science and Engineering Technology,  
University of Houston-Downtown  
Texas, USA.

## Special Session Timelines:

**Submission Deadline: 30 May 2018**

**Decision Notification: Within 7 working days of submission of paper via email.**

**Registration and CRC: 25 June 2018**

## Publication- of Proceedings

All presented papers (*Physically during the conference/by Skype presentation*) will be published in conference proceedings by Springer AISC. ISBN Number - 2194-5357 Series <http://www.springer.com/series/11156>

All submissions should be made directly at the Session Chair E-Mail ID:  
[bhateja.vikrant@ieee.org](mailto:bhateja.vikrant@ieee.org); [bhateja.vikrant@gmail.com](mailto:bhateja.vikrant@gmail.com)

**(For special session: do not submit via easychair online system)**

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